

**GRANTPRIDECO****RECEIVED  
CENTRAL FAX CENTER****JAN 30 2006**

Grant Prideco, L.P.  
400 N. Sam Houston Parkway East  
Suite 900  
Houston, TX 77060  
Phone: (281) 878-5655  
Fax: (281) 878-5720

**BEST AVAILABLE COPY**

Jayne Sippl  
Intellectual Property Administrator

**F A X C O V E R S H E E T**

Date: January 30, 2006	
To: USPTO	From: Jayne Sippl
	Phone: (281) 878-5655
Fax: 571.273.8300	Mobile:
Phone:	Fax: (281) 878-5720

Number of pages including cover sheet: 14

**IDS for 10/711,796**

The Commissioner is hereby authorized to charge any additional fees that may be required at any time during the prosecution of this application without specific authorization, or credit any overpayment, to Deposit Account No. 180584.

This facsimile and the information contained in it and attached to it is the property of Grant Prideco, Inc. and/or its subsidiaries and is confidential, intended for the addressee only. If you are not the addressee or one authorized by the addressee to receive this facsimile, you are requested not to use, copy or disseminate the information, and to notify the sender immediately of its receipt by collect telephone and return it by regular mail to the address shown above.

RECEIVED  
CENTRAL FAX CENTER

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JAN 30 2006

In re Application of:

Hall, et al.

Serial No.: 10/711,796

Filed: October 6, 2004

For: Apparatus for Responding to an  
Anomalous Change in Downhole  
Pressure

Art Unit: 2632

Examiner:

Docket No.: 66.0072

January 30, 2006

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

## CERTIFICATE OF MAILING

37 C.F.R. 1.10

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 or via facsimile on the date indicated below.

1/30/06

Date

Signature

VIA FAX: (571) 273-8300

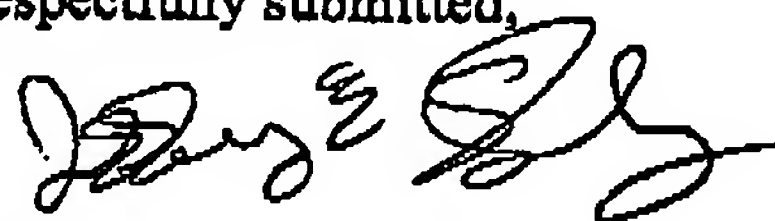
INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.97 and 1.98

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the references listed on the attached Form PTO/SB/08A be considered by the Examiner and made of record.

In accordance with 37 C.F.R. § 1.97(g), this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined 37 C.F.R. § 1.56(b) exists. Furthermore, pursuant to 37 C.F.R. § 1.97(h), the filing of this statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

This Information Disclosure Statement is filed in accordance with 37 C.F.R. 1.97 (b). No fees are deemed to be due at this time, but please charge any additional fees that may be required at any time during the prosecution of this application without specific authorization, or credit any overpayment, to Deposit Account No. 180584. If there are any questions concerning the above, please contact the undersigned at (281) 878-5658.

Respectfully submitted,



Jeffery E. Daly  
Reg. No. 44,640  
Customer No. 38046

Grant Prideco, L.P.  
400 N. Sam Houston Parkway E. #900  
Houston, TX 77060  
Ph: 281.878.5658  
Fax: 281.878.5720  
e-mail: [jeff.daly@grantprideco.com](mailto:jeff.daly@grantprideco.com)

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/711,795
		Filing Date	10/06/2004
		First Named Inventor	Hall et al
		Art Unit	2692
		Examiner Name	
Sheet 1 of 5	Attorney Docket Number	66.0072	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 6,392,317 B1	5/21/2002	Hall, David R., et al	
		US- 6,670,880 B1	12/30/2003	Hall, David R., et al	
		US- 6,717,501 B2	4/6/2004	Hall, David R., et al	
		US- 6,888,473 B1	5/3/2005	Hall, David R., et al	
		US- 6,799,832 B2	10/5/2004	Hall, David R., et al	
		US- 6,844,498 B2	1/18/2005	Hall, David R., et al	
		US- 6,830,467 B2	12/14/2004	Hall, David R., et al	
		US- 6,913,093 B2	7/5/2005	Hall, David R., et al	
		US- 6,821,147 B1	11/23/2004	Hall, David R., et al	
		US- 6,929,493 B2	8/16/2005	Hall, David R., et al	
		US- 6,945,802 B2	9/20/2005	Hall, David R., et al	
		US- 20050238160 A1	10/27/2005	Hall, David R., et al	
		US- 20050212530 A1	9/28/2005	Hall, David R., et al	
		US- 20050173128 A1	8/11/2005	Hall, David R., et al	
		US- 20050161215 A1	7/28/2005	Hall, David R., et al	
		US- 20050150853 A1	7/14/2005	Hall, David R., et al	
		US- 20050145406 A1	7/7/2005	Hall, David R., et al	
		US- 20050115717 A1	7/2/2005	Hall, David R., et al	
		US- 20050001735 A1	1/6/2005	Hall, David R., et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 801.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete If Known**

Application Number	10/711,798
Filing Date	10/08/2004
First Named Inventor	Hall et al
Art Unit	2632
Examiner Name	
Attorney Docket Number	66.0072

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 20050095827 A1	5/5/2005	Hall, David R., et al	
		US- 20050093296 A1	5/5/2005	Hall, David R., et al	
		US- 20050092499 A1	5/5/2005	Hall, David R., et al	
		US- 20050082092 A1	4/21/2005	Hall, David R., et al	
		US- 20050001738A1	1/6/2005	Hall, David R., et al	
		US- 20050070144 A1	3/31/2005	Hall, David R., et al	
		US- 20050067159 A1	3/31/2005	Hall, David R., et al	
		US- 20050046590 A1	3/3/2005	Hall, David R., et al	
		US- 20050046586 A1	3/3/2005	Hall, David R., et al	
		US- 20050045339 A1	3/3/2005	Hall, David R., et al	
		US- 20050039912 A1	2/24/2005	Hall, David R., et al	
		US- 20050036507 A1	2/17/2005	Hall, David R., et al	
		US- 20050035876 A1	2/17/2005	Hall, David R., et al	
		US- 20050035875 A1	2/17/2005	Hall, David R., et al	
		US- 20050035874 A1	2/17/2005	Hall, David R., et al	
		US- 20050001738 A1	1/6/2005	Hall, David R., et al	
		US- 20040246142 A1	12/9/2004	Hall, David R., et al	
		US- 20040244964A1	12/9/2004	Hall, David R., et al	
		US- 20040244916A1	12/9/2004	Hall, David R., et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code* Number* Kind Code* (if known)				

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinda Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SE/08A (04-03)

Approved for use through 04/30/2003. OMB 0851-0081

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Sheet 3 of 5

Application Number	10/711,796
Filing Date	10/06/2004
First Named Inventor	Hall et al.
Art Unit	2632
Examiner Name	
Attorney Docket Number	68.0072

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (If known)			
		US- 20040216847 A1	11/4/2004	Hall, David R., et al	
		US- 20040164838 A1	8/26/2004	Hall, David R., et al	
		US- 20040164833 A1	8/26/2004	Hall, David R., et al	
		US- 20040150532 A1	8/5/2004	Hall, David R., et al	
		US- 20040145492 A1	7/29/2004	Hall, David R., et al	
		US- 20040113808 A1	6/17/2004	Hall, David R., et al	
		US- 20040104797 A1	8/3/2004	Hall, David R., et al	
		US- 4,739,325	4/19/1988	MacLeod	
		US- 6,012,015	1/4/2000	Tubel	
		US- 6,252,518 B1	8/26/2001	Laborde	
		US- 2,414,719	1/21/1947	Cloud	
		US- 3,518,608	6/30/1970	Papadopoulos	
		US- 4,788,544	11/29/1988	Howard	
		US- 6,866,306 B2	3/15/2005	Boyle, et al	
		US- 6,688,398 B2	2/10/2004	Floerke, et al	
		US- 6,988,611 B2	11/29/2005	Hall, David R., et al	
		US- 20050279508 A1	12/22/2005	Hall, David R., et al	
		US- 20050284659 A1	12/29/2005	Hall, David R., et al	
		US- 20050284662 A1	12/29/2005	Hall, David R., et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	Y <sup>4</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (If known)				

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9189 (1-800-786-9189) and select option 2.

PTO/SB/08A (07-05)

Approved for use through 07/31/2008. OMB 0851-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (Use as many sheets as necessary)		Application Number	10/711,796
		Filing Date	10/06/2004
		First Named Inventor	Hall et al
		Art Unit	2632
		Examiner Name	
Sheet 4 of 5	Attorney Docket Number	68.0072	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 20050284663 A1	12/29/2005	Hall, David R., et al	
		US- 20050285645 A1	12/29/2005	Hall, David R., et al	
		US- 20050285705 A1	12/29/2005	Hall, David R., et al	
		US- 20050285706 A1	12/29/2005	Hall, David R., et al	
		US- 20050285751 A1	12/29/2005	Hall, David R., et al	
		US- 20050285752 A1	12/29/2005	Hall, David R., et al	
		US- 20050285754 A1	12/29/2005	Hall, David R., et al	
		US- 6,868,920 B2	3/22/2005	Hoteit, Leila, et al	
		US- 5,006,845	4/9/1991	Calcar, Henry V.	
		US- 4,377,206	3/22/1983	Chambers, Roland A.	
		US- 2004/0039466 A1	02/26/2004	Lilly et al	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-788-9199) and select option 2.

PTO/SB/08B (04-03)

Approved for use through 04/30/2003. OMB 0551-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

**Complete if Known**

Application Number	10/711,798
Filing Date	10/06/2004
First Named Inventor	Hall, et al.
Art Unit	2632
Examiner Name	
Attorney Docket Number	66.0072

Sheet

5

of

5

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		PCT/US03/16475, Published 12/04/2003, Applicant Baker Hughes; International Search Report: "Documents Considered to Be Relevant"	

Examiner Signature	Date Considered
-----------------------	--------------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English Language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



**This Page is Inserted by IFW Indexing and Scanning  
Operations and is not part of the Official Record**

**BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

☐ **BLACK BORDERS**

☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**

☐ **FADED TEXT OR DRAWING**

☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**

☐ **SKEWED/SLANTED IMAGES**

☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**

☐ **GRAY SCALE DOCUMENTS**

☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**

☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**

☐ **OTHER:** \_\_\_\_\_

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.**